

Amendments to the Specification:

Please replace paragraph [00050] with the following amended paragraph:

[00050] According to various embodiments, the contents of the first and second chambers can be combined and mixed at different times or at the same time. For example, the contents of the first chamber can be combined with the contents of the second chamber using centripetal force by spinning a ~~platent~~ platen containing the first and second chambers at a low rate, or rounds per minute (RPM), for example, from about 100 RPM to about 1,000 RPM. The contents of the first and second chambers can be mixed by centripetal force by spinning a ~~platent~~ platen containing the first and second chambers at a relatively high RPM, for example, from about 2,500 RPM to about 5,000 RPM. The contents of the first and second chambers can be combined using centripetal force, a positive pressure gradient, for example, a positive pressure gradient created by heat, or a negative pressure gradient, for example a negative pressure gradient created by a vacuum. The contents of the first and second chambers can be mixed by, for example, centripetal force, thermal mixing, vortexing, shaking, sonication, or thermally-activated solutization. The contents of the first and second chambers can have different viscosities. For example, an aqueous solution containing magnesium can be mixed with glycerol and preloaded into the second chamber. The assay reactants contained in the first chamber can be slowly transferred into the second chamber to create two separate layers. The second chamber can then be heated to mix the first and second layers containing the assay reactants and the magnesium, respectively.